

St. George Island, Alaska
Request for No Further Action
Gas Station #1 UST Site
TPA Site No. 22-5

Site: Gas Station #1 UST, Two-Party Agreement (TPA) Site Number 22-5

Location: St. George Island, Alaska, approximately 800 miles southwest of Anchorage in the Bering Sea. The site is a former underground storage tank (UST) for a gasoline distribution station located east of the current St. George Tanaq Corporation Carpenter Shop (TPA Site 22-2) in the City of St. George. (Figures 1 and 2)

Type of Release: Petroleum fuel hydrocarbons from a UST and its appurtenances.

History: A gas station operated at this site from 1973 to the mid-1980s. The UST was installed in 1973 or 1974 and was used until the mid-1980s for gasoline storage (Polarconsult 1997a). The Alaska Department of Environmental Conservation facility ID for this tank is 3047.

Summary of Site Investigations:

No site investigations were performed for the site. The UST was discovered in 1997 during activities supporting clean up actions on nearby sites. Once NOAA discovered the UST, NOAA's contractor was tasked to close the UST and remediate associated petroleum contaminated soil.

Summary of Clean up Actions:

A UST closure was performed in accordance with a May 1997 work plan (Polarconsult 1997b). Clean overburden soil was excavated from above the UST and placed temporarily in two on-site stockpiles. During the closure, the soil immediately below the tank appeared highly contaminated with fuel based on field instrument readings, as well as visual and olfactory observations. Several small, pencil-sized holes were observed in the tank bottom during tank cleaning (Polarconsult 1997a). The tank was removed from the site, cleaned, and cut into pieces. The tank was transported to Alaska Metal Recycling in Seward, Alaska in June 1997 for disposal as metallic scrap (Polarconsult 1997a). A total of 756 cubic yards of petroleum contaminated soil (PCS) was removed from beneath and near the tank. (Figure 3) The excavated PCS was hauled to NOAA's PCS stockpile, approximately one mile west of the City of St. George. The PCS stockpile was treated using NOAA's enhanced thermal conduction system in 2000 and 2001 (Polarconsult 2001). Confirmation samples were collected from the excavation. Stockpile characterization samples were collected from the two clean overburden stockpiles on-site. The samples were analyzed for gasoline-range organics (GRO) and were found to be at non-detectable levels and below the GRO cleanup level of 100 mg/kg (Polarconsult 1997a). (Figure 4) The samples were not analyzed for benzene, toluene, ethylbenzene, xylenes or lead due to non-detectable levels of GRO. A summary of analytical data is shown in Table 1. The site was backfilled with clean soil, compacted and graded.

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Recommended Action:

In accordance with paragraph 59 of the Two-Party Agreement (NOAA 1996), NOAA submits written confirmation that all corrective action has been completed and that no further action is required at TPA Site Number 22-5.

References:

NOAA. 1996. Pribilof Islands Environmental Restoration Two Party Agreement, Attorney General's Office File No. 66 1-95-0126. National Oceanic and Atmospheric Administration. January 26, 1996.

Polarconsult. 1997a. Environmental Site Investigation, St. George Debris Removal Report, Pribilof Islands Environmental Restoration Project. Polarconsult Alaska, Inc. December 31, 1997.

Polarconsult. 1997b. Work Plan for Site Assessment and Contaminated Soil Removal. Polarconsult Alaska, Inc. May 1, 1997.

Polarconsult. 2001. Draft Report Revision 1, Remediation of Petroleum Contaminated Soil, NOAA Part II Pribilof Islands Environmental Cleanup Project, St. George Island, Alaska. Polarconsult Alaska, Inc. December 27, 2001.

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Table 1: Summary of Analytical Data for Gas Station #1 UST Site

<i>Sample ID</i>	<i>Sample Type</i>	<i>Sample Depth BGS (ft)</i>	<i>OVM Analysis Result (ppm)</i>	<i>GRO by AK-101 Result (mg/kg)</i>
SS 094	E	14.9	0	ND
SS 095	E	16.9	0	ND
SS 096	E	19.0	1	ND
SS 097	E	19.5	0	ND
SS 098	E	17.3	5	ND
SS 099	E	19.1	0	ND
SS 100	E	13.0	0	ND
SS 101	E	11.3	0	ND
SS 224	E	21.2	0	ND
SS 225	E	17.6	0	ND
SS 226	E	17.6	0	ND
SS 227	E	16.4	0	ND
SS 228	E	18.7	0	ND
SS 102	C	n/a	0	ND
SS 103	C	n/a	0	ND
SS 104	C	n/a	0	ND
<i>Cleanup Level (mg/kg)</i>	--	--	--	<i>100</i>

Notes:

ND = Soil not detected above the Practical Quantitation Limit, which was < 10 mg/kg for GRO in these analyses.

Sample Types: E = excavation confirmation sample; C = stockpile characterization sample

Source of Analytical Data: Polarconsult 1997a.

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For the National Oceanic and Atmospheric Administration

John Lindsay
NOAA, Pribilof Project Office

Date

Approvals: In accordance with Paragraph 59 of the Two Party Agreement, this is to confirm that all corrective action has been completed at TPA Site Number 22-5, the Gas Station #1 UST Site, in accordance with the Agreement and that no further action is required.

For the Alaska Department of Environmental Conservation

Louis Howard
Alaska Department of Environmental Conservation
Remedial Project Manager

Date